

ABSTRACT

A power management system and associated method therefore includes a plurality of local wireless energy control units at remote sites for controlling power delivery to customer loads, and a central station with a wireless transmitter for
5 broadcasting commands to the wireless energy control units. The wireless energy control units each comprise a bank of switches for controlling power delivery to electrical loads at each local site. The controllable switches preferably have a deformable bimetal member controlled by a heated coil for engaging and disengaging electrical contacts. Each wireless energy control unit is capable of
10 being pre-configured so as to specify the order or priority in which electrical loads are disengaged, in response to commands to reduce power consumption received from the central station. The central station may issue power reduction commands according to different priority levels or alert stages. The local wireless energy units respond to the power reduction commands by disengaging one or more electrical
15 loads in accordance with the priority level of the power reduction command, and through their collective operation reduce overall customer power demand.

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